"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410014-8

ASPISOV, D.I.

Ways of efficient utilization of fur-bearing animals of the Kuybyshev Reservoir bed. Trudy VNIO no.13:189-199 '53. (MLRA 7:5)
(Kuybyshev Reservoir--Fur-bearing animals) (Fur-bearing animals--Kuybyshev Reservoir)

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ASPISOV, D.I.

Methods for using desmans in connection with establishing reservoirs on the Volga River. Uch.zap.Kaz.un. 115 no.8:217-223 '55.
(MLRA 10:3)

1. Deystvitel'nyy chlen Obshchestva yestestvoispytateley.
(Volga River--Desmans)

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ASPISOV, D.I.

Elk distribution and population in the Tatar A.S.S.R. Uch.zap. Kaz.un.115 no.8:231-239 '55. (MLRA 10:3)

1. Deystvitel'nyy chlen Obshchestva yestestvoispytateley.
(Tatar A.S.S.R.--Elk)

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ASPISOV, D.I.

Elk in the Tatar A.S.S.R. Soob.Inst.lesa no.13:89-93 '59.
(MIRA 13:2)

1. Volzhsko-Kamskoye otdeleniye Vsesoyuznogo nauchno-issledovatel'skogo instituta zhivotnogo syr'ya i pushniny (VNIIZhP).
(Tatar A.S.S.R. - Elk)

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ASPISOV, D.I.; GRIGOR'YEV, N.D.

Acclimatization of the American mink (Mustela vison Brisa) in the Volga-Kama region. Uch.zap.Kaz.un. 120 no.6:322-334 '60. (MIRA 16:2)

(Volga Valley—Minks) (Kama Valley—Minsk)
(Acclimatization)

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ASPISOV, N. M.

"Role of Electroencephalography in Otopathic Diagnosis," Vest. oto-rino-laringol., No.4, 1948

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ASPISOV, N. M.

USSR/Medicine - Medical Societies May/Jun 49
Medicine - Otorhinolaryngology

"Account of the Work of the Georgian Department of the All-Union Society of Otolaryngologists for 1948" N P [illegible]

"Vest Oto-Rino-Laringol" No 3

Lists officers, among them: Chm, Prof N. M. Aspisov, Hon Worker of Sci Georgian SSR; Vice-Chm, G. P. Khutsishvili; and Secy, Docent A. M. Chachava. A Tbilisi seminar on the Soviet concept of biology was established by the society of 42 members. Six plenary sessions were held during the year, at which reports

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USSR/Medicine - Medical Societies May/Jun 49
(Contd)

by the chairman, the secretary, M. K. Chachava, A. I. Yeliveridze, and G. N. Onanova were given. These included an account of the Second Ukrainian Otolaryngol Conf and a report on the Otorhinolaryngol Clinic of Tbilisi State Med Inst.

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ASPISOV, N. M. Prof. Honored worker of sci.

"Review of 'Handbook of the Transactions of the Leningrad Scientific-Research Institute on Diseases of the Ear, Nose and Throat, and Vocal Organs," Vest. oto-rino-laringol., No.4, 1949

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"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410014-8

ASPISOV, N. M.

N. P. Simanovskiy, the father of Russian otorhinolaryngology. Reviewed by N. M. Aspisov. Vest. oto-rin. 14 no. 1, 1952.

SO: MLRA. April 1952.

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ASPISOV, P. N., Physician Cand. Med. Sci.

Dissertation: "Concerning the Intrasecretory Function of a Pharyngeal Tonsil." Second Moscow State Medical Inst. imeni I. V. Stalin. 5 May 47.

SO: Vechernyaya Moskva, May, 1947 (Project #17836)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410014-8"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410014-8

KUTSEVALOV, Vitaliy Mikhaylovich; ASPIT, V.V [Aspits, A.], kand. tekhn. nauk, retsenzent; VENGRANOVICH, A., red.; PILADZE, Ye. [Piladze, E.], tekhn. red.

[An asynchronous machine with a solid rotor]Asinkhronnaia mashina s massivnym rotorom. Riga, Izd-vo Akad. nauk Latviiskoi SSR, 1962. 184 p. (MIRA 15:10)
(Electric motors, Induction)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410014-8"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410014-8

ASPIZ, M. Ye.

PA 1/50T7

USSR/Biology - Regeneration, Hair Aug 49
Mammals

"The Regeneration of Hair and Skin Glands in Mammals," M. Ye. Aspiz, Inst of Animal Morph imeni A. N. Severtsov, Acad of Sci USSR, 3½ pp

"Dok Ak Nauk SSSR" Vol LXVII, No 6

The regenerative process was observed in 40 rabbits 2-5 months old and 36 rats 1.5-6 months old. Observations were made on the inner and outer ears and the backs of the rabbits and the backs of the rats; successive pictures of the former are given. It is assumed that hair and

1/50T7

USSR/Biology - Regeneration, Hair Aug 49
(Contd)

skin glands ordinarily do not regenerate in scar tissues because of a certain type of interactivity of the epithelial and connective tissues (as yet unknown) and possibly due to the degree of inflammation resulting from the wound and the inability of the connective tissue to promote a fast fibroblastic reaction. Submitted by Acad K. I. Skryabin 23 Jun 49.

1/50T7

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Sposoby ustraneniya khryashcha kost'yu u kostistykh ryb. Doklady Akad. Nauk SSSR. Novaya seriya. T. LXVIII, No. 1, 1949, S. 153-56.- Bibliogr: 7 nazv.

SO: LETOPIS' No. 34

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ASPIZ, M. Ye.

"Regularities in Histogenesis and Regeneration of the Skin Glands and Hair of Certain Mammals," Thesis for degree of Cand Biol Sci., submitted 27 Nov 50, Moscow XXXX Fur (and Pelt) Inst.

Summary 71, 4 Sep 52. Dissertations Presented for Degrees in Sci. and Eng. in Moscow in 1950. From Vechernyaya Moskva, Jan-Dec 1950.

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Regeneration of skin glands and hair of certain mammals. Trudy Inst.morf.zhiv. no.11:92-113 '54. (MLRA 8:2)
(Skin) (Regeneration (Biology))

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KOVALEVSKIY, Vladimir Onufriyevich; DAVITASHVILI, L. Sh., otvetstvennyy redaktor; ASPIZ, M.Ye., redaktor izdatel'stva; KISELEVA, A.A., tekhnicheskiy redaktor

[Collection of scientific works] Sobranie nauchnykh trudov. Moskva, Izd-vo Akademii nauk SSSR. Vol.2. 1956. 299 p. (MLRA 10:2)
(Ungulata, Fossil)

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AVPLZ, Mye.

MITSKEVICH, Mikhail Semenovich; STUDITSKIY, A.N., otvetstvennyy redaktor; ASPIZ, M.Ya., redaktor izdatel'stva; KISELEVA, A.A., tekhnicheskiy redaktor

[Endocrine glands in the embryonic development of birds and mammals] Zhelezy vnutrennei sekretsii v zarodyshevom razvitii ptits i mlekopitaiushchikh. Moskva, Izd-vo Akad. nauk SSSR, 1957. 245 p.
(Endocrine glands) (Embryology) (MIRA 10:4)

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Effect of cholesterine on the structure and function of the thyroid gland. Dokl. AN SSSR 155 no. 5:1230-1232 Ap '64. (MIRA 17:5)

1. Predstavleno akademikom K.I.Skryabinym.

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[illegible], M.Ye.; ZAIKIND, S.Ya.

Third Conference on the Problems of Regeneration and Cell Reproduction. TSitologiia 5 no.4:477-479 Jl-Ag '63.
(MIRA 17:8)

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ASPIZ, M.Ye.; TROSHIN, K.A.; USHAKOVA, S.P.

Significance of succinic dehydrogenase of the cell for the reproduction of adenovirus in a tissue culture. Dokl. AN SSSR 166 no.3:732-733 Ja '66. (MIRA 19:1)

1. Nauchno-issledovatel'skiy institut morfologii cheloveka AMN SSSR. Submitted March 12, 1965.

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"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410014-8

L 27620-66

ACC NR: AP6018421 SOURCE CODE: UR/0020/66/166/004/0965/0967

AUTHOR: Alov, I. A., Aspis, M. Ye.

ORG: Scientific Research Institute of Human Morphology, AMN SSSR (Nauchno-issledovatel'skiy institut morfologii cheloveka, AMN SSSR)

TITLE: Significance of sulfhydryl protein groups in the process of mitotic cell division

SOURCE: AN SSSR. Doklady, v. 166, no. 4, 1966, 965-967

TOPIC TAGS: mitosis, protein, human genetics

ABSTRACT: Experiments were conducted on a 3-day monolayer culture of human amniotic cells to analyze the contradiction between cytochemical and experimental data confirming the importance of sulfhydryl and disulfide protein groups in mitosis and Mazia's shift from the hypothesis that the orientation of proteins in a thread of the spindle is associated with a conversion of intramolecular disulfide bonds to intermolecular bonds, to the position that the macromolecular threads of the spindle are formed by virtue of weak hydrogen bonds. Cytochemical study showed that the content of SH- and SS- protein groups change in a regular pattern during mitosis. Other experiments in which the content of sulfhydryl groups was reduced and increased artificially showed that disruption of the chemical mechanism by which SH- groups are altered and SS- bonds are formed results in a halt of division in the metaphase and separation of the chromosomes is disrupted. The abnormal forms

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ACC NR: AP6018421

of mitosis resulting from intervention of this sort suggest that certain natural cases of abnormal mitosis (for example, in tumors) might also be associated with damage to the sulfhydryl-disulfide mechanism of mitosis. The paper was presented by Academician N. M. Sisakyan on 18 March 1965. Orig. art. has: 5 figures. [JPRS]

SUB CODE: 06 / SUBM DATE: 18Mar65 / ORIG REF: 005 / OTH REF: 013

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The orgin and development of the defibrator process. Tr. from the English.

p. 160 (Faipar) Vol. 7, no. 4, Sept. 1957, Budapest, Hungary

SO: MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (EEAI) LC, VOL. 7, NO. 1, JAN. 1958

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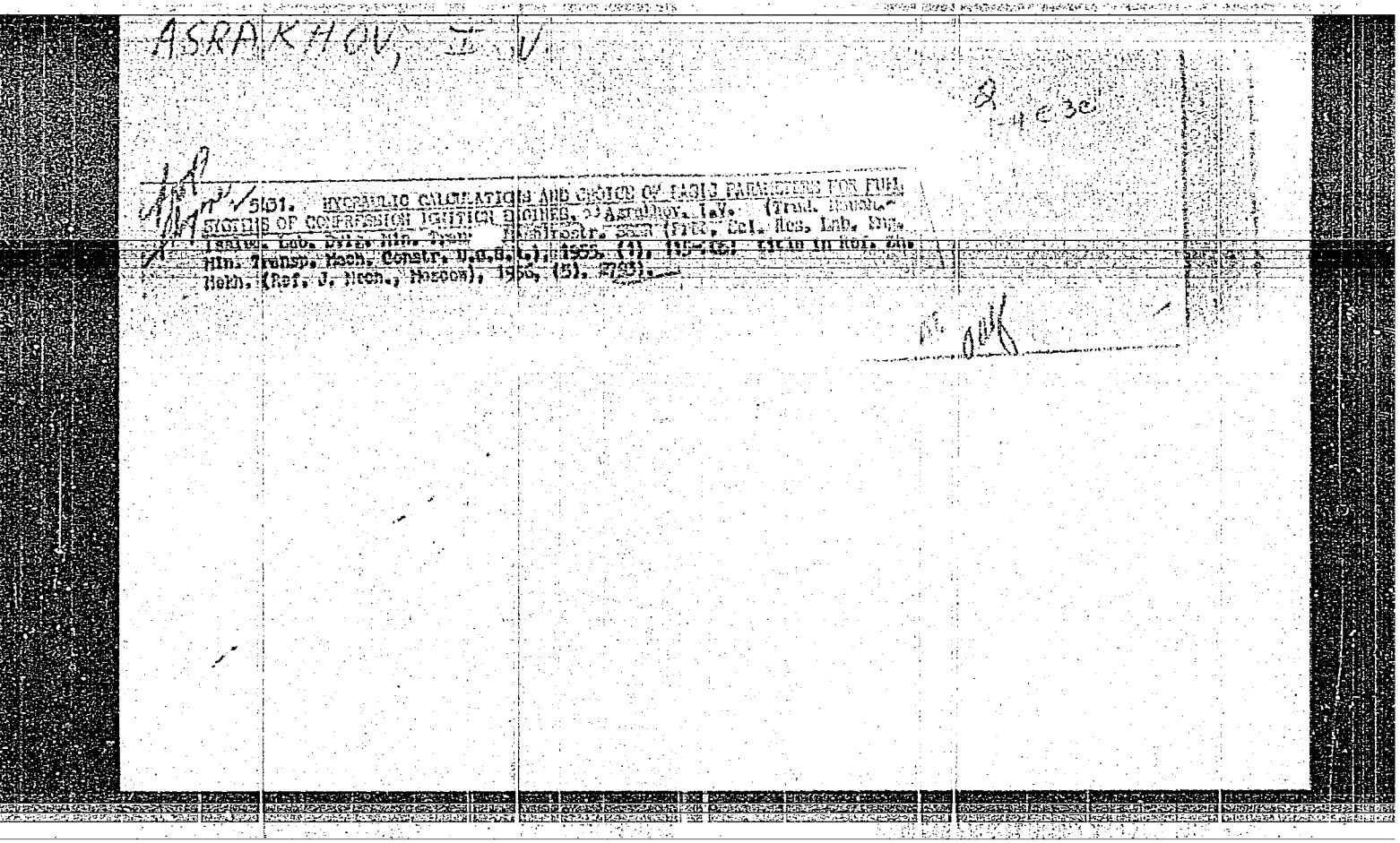

ASRAKHOV, I. V.

5101. HYDRAULIC CALCULATION AND CHOICE OF BASIC PARAMETERS FOR FUEL SYSTEMS OF COMPRESSION IGNITION ENGINES. Asrakhov, I.V. (Trud. Nauch.-Issled. Lab. Rybin. Min. Trans. Mash. Constr. U.S.S.R.), 1955, (1), 135-161. (In Russ.) Min. Transp. Mach. Constr. U.S.S.R., Sci. Res. Lab. Rep. Mekh. (Ref. J. Mech., Moscow), 1956, (5). #783.

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ASRATYAN, A.

Our assistance to works councils. Zhil.-kom. khoz. 12 no.4:12 Ap '62. (MIRA 15:7)

1. Predsedatel' Armyanskogo respublikanskogo komiteta profsoyuza, Yerevan'.
(Armenia--Works councils)

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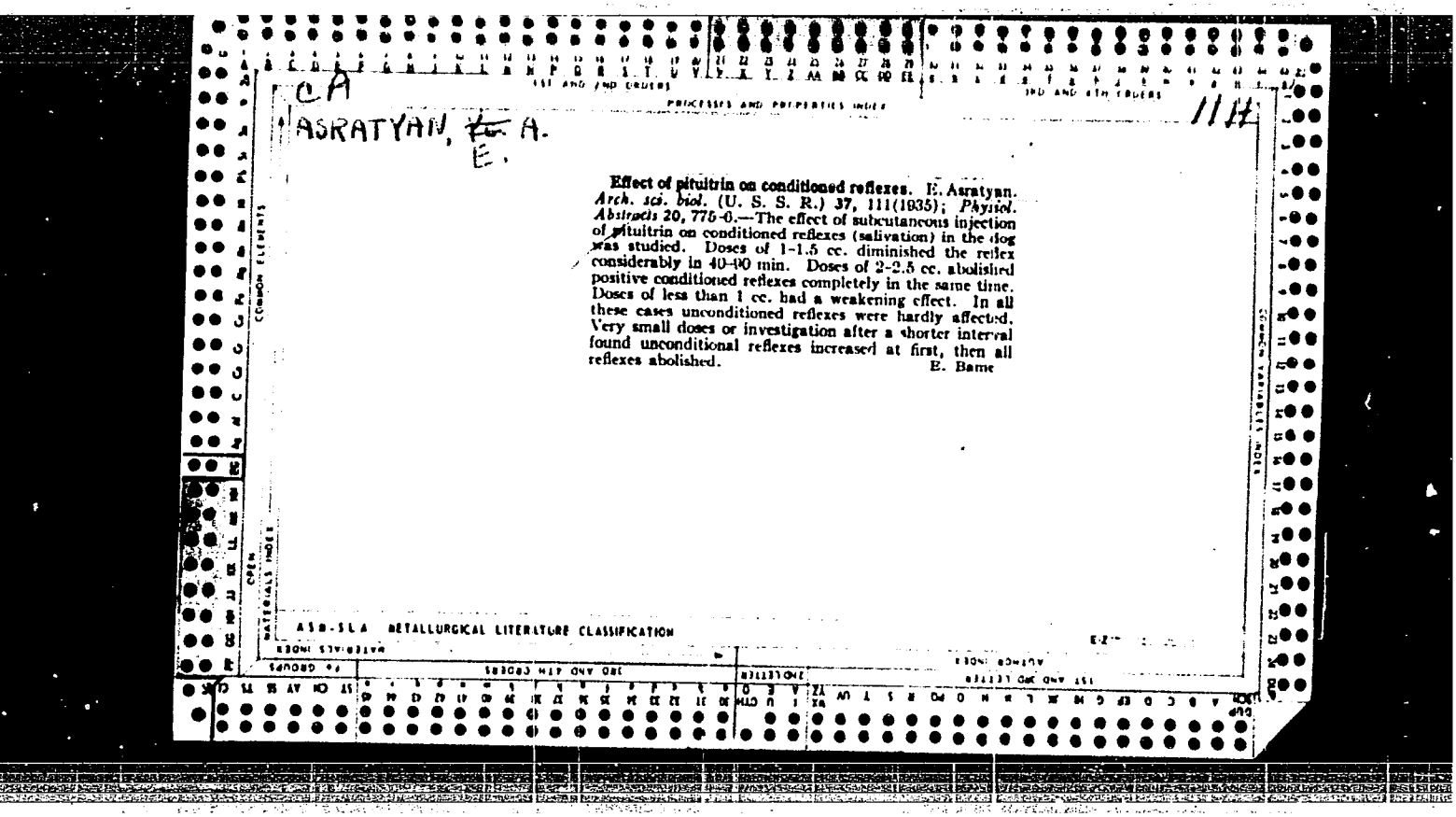

CA

ASRATYAN, ~~E.~~ A.
E.

11H

Effect of pituitrin on conditioned reflexes. E. Asratyan. *Arch. sci. biol.* (U. S. S. R.) **37**, 111(1935); *Physiol. Abstracts* **20**, 775-6.—The effect of subcutaneous injection of pituitrin on conditioned reflexes (salivation) in the dog was studied. Doses of 1-1.5 cc. diminished the reflex considerably in 40-90 min. Doses of 2-2.5 cc. abolished positive conditioned reflexes completely in the same time. Doses of less than 1 cc. had a weakening effect. In all these cases unconditioned reflexes were hardly affected. Very small doses or investigation after a shorter interval found unconditional reflexes increased at first, then all reflexes abolished.
E. Bame

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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ASRATYAN, E. A.

"Brain Cortex and Plasticity of the Nervous System", (p. 803) by Asratyan, E. A.

SO: Advances in Contemporary Biology (USPEKHI SOVREMENNOI BIOLOGII) Vol. 5, No. 5 1936

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"The brain cortex and the plasticity of the nervous system. II" (p. 451) by Asratian, E.

SO: Advanced in Contemporary Biology (Uspekhi Sovremennoi Biologie) Vol. VI, No. 3 1937

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ASRATJAN, E.

"Fifth meeting on physiological problems, Moscow." (p. 171)
by Asratjan, E

SO: Advances in Modern Biology (Uspekhi Sovremennoi Biologie)
Vol. XI, No. 1, 1939

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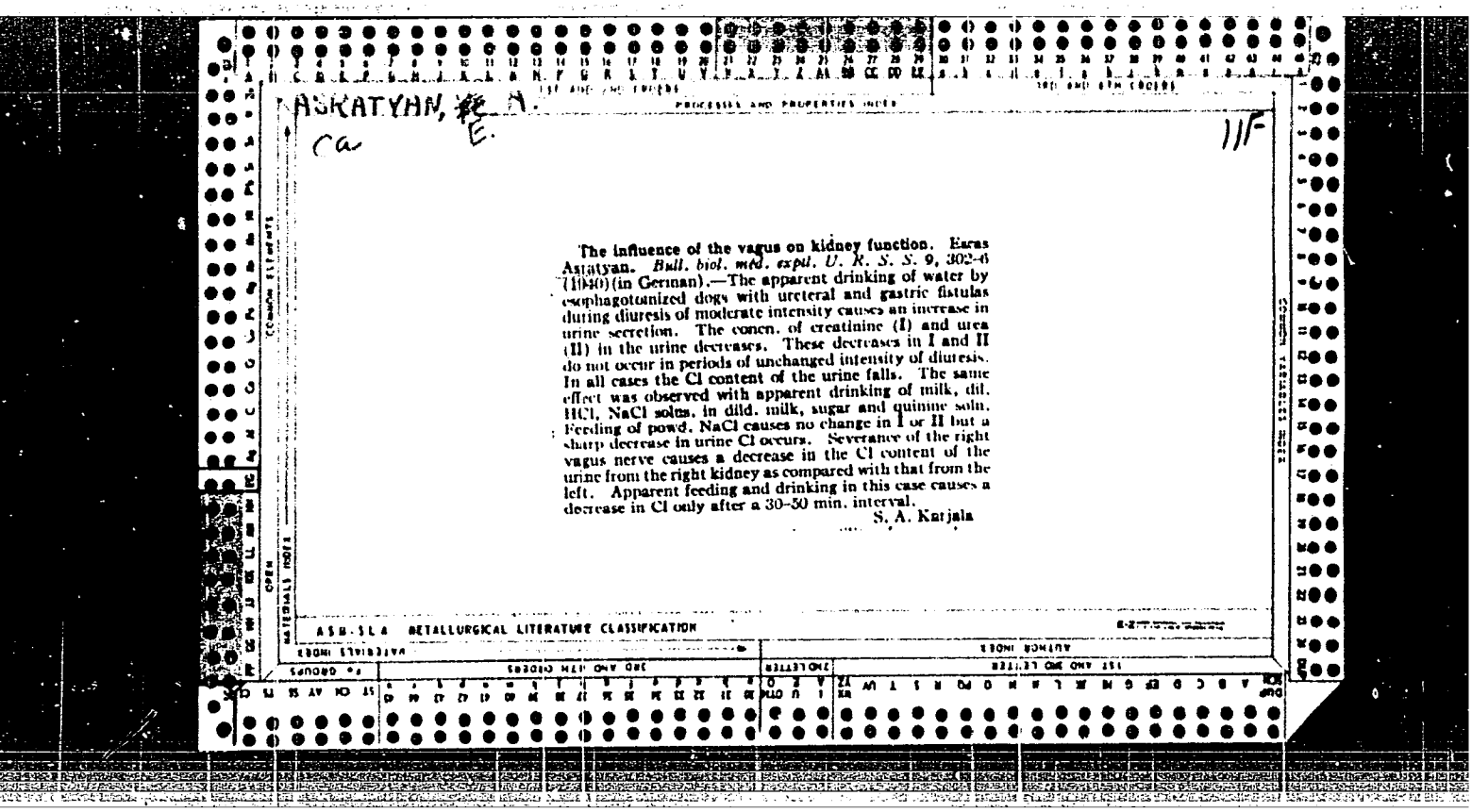

ASKATYAN, E. A.

Ca

III F

The influence of the vagus on kidney function. Esras Asatyan. *Bull. biol. méd. expl. U. R. S. S.* 9, 302-6 (1940)(in German).—The apparent drinking of water by esophagotomized dogs with ureteral and gastric fistulas during diuresis of moderate intensity causes an increase in urine secretion. The concn. of creatinine (I) and urea (II) in the urine decreases. These decreases in I and II do not occur in periods of unchanged intensity of diuresis. In all cases the Cl content of the urine falls. The same effect was observed with apparent drinking of milk, dil. HCl, NaCl solns. in dild. milk, sugar and quinine soln. Feeding of powd. NaCl causes no change in I or II but a sharp decrease in urine Cl occurs. Severance of the right vagus nerve causes a decrease in the Cl content of the urine from the right kidney as compared with that from the left. Apparent feeding and drinking in this case causes a decrease in Cl only after a 30–50 min. interval.

S. A. Katjala

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

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"The brain-cortex and the plasticity of the nervous system. III." (p. 516) by Asratian, E.

SO: Advances in Modern Biology (Uspekhi Sovremennoi Biologie) Vol. XII, No. 3, 1940

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His works: "New Data on the Physiology of the Cerebrum," Arkhiv Biologicheskikh nauk /Archives of the Biological Sciences/, 1941, No 3; Ocherki po etiologii, patologii i terapii travmaticheskogo shoka /Essays on the Etiology, Pathology, and Therapy of Traumatic Shock/, Moscow, 1945; O prisposobitel'nykh yavleniyakh v povrezhdennom organizme /On Adaptative Manifestations in a Damaged Organism/, Moscow, 1948.

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Corr Memb Acad Sci USSR, "Strengthening Effect from the Transfusion of Preserved Blood" Mbr., Dept. Biological Sci., Acad. Sci.

SO: MLRA Vest. Ak. Nauk SSSR, No. 11-12, 1944;
Report U-1660, 24 Jan. 1952.

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ASRATYAN, Ezras Asratovich

"Cortex of the Cerebrum and Phenomena of Adaptability in the Injured Organism. Communication V. Experiment with Destruction of Labyrinths." Fiz. Zhur., Vol 33, No 3, 1947, p 289. Division of Physiology of the Central Nervous System, Inst of the Brain imeni Bekhterev, Leningrad USSR.

SO: U-4396

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"Theory and Practical Aspects of Pavlov's Curative-Medicinal Braking," V Sob.: Ob'yedin Sessiya posvyashch. 10-Letiya So dnya Smerti Pavlova (Akad. Nauk SSSR, Akad. Med Nauk SSSR, Vsesoyuz. i Mosk. o-vo Fiziologov, Biokhimov i Farmakologov, Moscow, 1948, pp. 152-161).

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"The Cerebral Cortex and the Adaptation Phenomenon in an Injured Organism: IV. Tests on the Deafferentia of Limbs"
Fiziol. Zhur. SSSR, Vol. 34, No. 1, 1948.

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"The Cerebral Cortex and the Adaptation Phenomenon in an Injured Organism: VI. Tests on Intersection of the Dorsal Primary Division of the Cervical Plexus"
Fiziol. Zhur. SSSR, Vol. 34, No. 2, 1948.

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Restoration of Function Lab., Acad. Sci., 1949
Some general characteristics of the disturbance and restoration of nerve function.

SO: MIRA Brookhaven Guide, Vol. 3, No. 9, 1950.

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"Academican I.P. Pavlov's teaching of Higher Nervous Activity," (Ucheniye akademika I.P. Pavlova o vysshey mervnoy deyatel'-nosti), published by the All-Union Society for the Diffusion of Political and Scientific Subjects, Moscow, 1949.

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Voprosy Filosofii, No. 1, 1949, pp. 147-164.

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Trudy Akad. Med. Nauk SSSR, Vol. IV, 1949, pp. 30-36.

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26626 I. P. pavlov-Uchenyy i uchitel' Zhurnal obshchey Biologii, 1949, No. 4, s. 288-94

SO: LETOPIS' NO. 35, 1949

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26625 Akademik ivan petrovich Pavlov - v ogl:e ya(!) asratyan. izvestiya akad, nauk SSSR. seriya biol., 1949, No. 4. s. 383-412.

SO: LETOPIS' NO. 35, 1949

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"Results and Perpspectives for the Utilization of a New Method for Anemic Infection of the Central Nervous System of Higher Animals"
Fiziol. Zhurnal SSSR im. Sechenova, No. 5, 1949, pp. 504-508.

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Nauka i Zhizn', No. 3, 1949, pp. 34-39.

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"A Great Russian Physiologist"
Vestnik Akad. Nauk SSSR, No. 9, 1949, pp. 3-23.

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ASRATYAN, E. A.

"The Plasticity of the Nervous System, as Viewed in the Light of Pavlov's Doctrine" (paper submitted by E. A. Asratyan, USSR Academy of Sciences, to the 18th International Physiological Congress held in Copenhagen, 15-18 Aug 50.)

B-23194, 5 Dec 50

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Pavlovian theory on the higher nervous functions. Prakt. lek., Praha 31 no. 3:62-67;concl. 5 Feb 1951. (CLML 22:3)

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Principles of reversibility in conditioned reflex function. Zh. vysshei nerv., deiat., Pavlova 1 no. 1:47-54 Jan-Feb 1951. (CLML 22:5)

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USSR/Medicine - Sleep Therapy Nov/Dec 51

"Experimental Sleep Therapy of Results of Organic Injuries of the Central Nervous System," E. A. Asratyan

"Zhur Vyssh Nerv Deyatel' Vol I, No 6, pp 902-916

Reviews in detail work on sleep therapy carried out on exptl animals during 1941 - 1951. This includes treatment with narcotic sleep of injuries of the nervous system brought about by toxic substances and infections (A. G. Ivanov-Smolenskiy et. al.; work on rats and guinea pigs), therapy of aftereffects of exptl traumatic shock and shock due to burns (work on dogs) etc. States that World 206T95

USSR/Medicine - Sleep Therapy (Contd) Nov/Dec 51

War II served as a stimulus for these investigations, which were aimed at development of new methods for treating war trauma. Found that hypnotics of the carbamide class (hedonal, uretane) are preferable to barbiturates due to lower toxicity; that 10-15 hrs of narcotic sleep are preferable to the 18-20 hrs advocated by F. A. Andreyev and others.

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ASRATYAN, E. A.

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1. ASRATYAN, E. A. (Prof.)

2. USSR (600)

4. Physiology

7. Pavlov's theory as a basis of medicine. Klin. med. 30 no. 9: 1952.

9. Monthly List of Russian Accessions, Library of Congress, March 1953, Uncl.

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I.P.Pavlov; his life and work. Moscow,Foreign Languages Publishing House, 1953. 163 p. (MLRA 9:4)
(Pavlov, Ivan Petrovich, 1849-1936) (Physiology)

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[Physiology of the central nervous system; scientific works] Fiziologiia tsentral'noi nervnoi sistemy; nauchnye raboty. Moskva, 1953. 559 p.
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LEPESHINSKAYA, O.B., professor; USIYEVICH, M.A., professor; ASRATYAN, E.A., professor; SMIRNOV, A.I., professor; FILIPPOVICH, S.I., doktor meditsinskikh nauk; VOLOKHOV, A.A., professor; FILIMONOV, I.N., professor; SNYAKIN, P.G., professor; CHERNIGOVSKIY, V.N., professor; SPERANSKIY, A.D., akademik; DOLIN, A.O., doktor meditsinskikh nauk; KOTLYAREVSKIY, L.I., professor; NEGOVSKIY, V.A., professor; KASATKIN, N.I., professor; STEL'CHUK, I.V., professor; YEGOROV, B.G., professor; BAKULEV, A.N., professor; SMIRNOV, L.I., professor; USPENSKIY, V.N., redaktor; PETROV, S.P., redaktor.

[Teachings of I.P.Pavlov in theoretical and practical medicine] Uchenie I.P.Pavlova v teoreticheskoi i prakticheskoi meditsine. Vol.2. Moskva, Izd-vo Ministerstvo zdravookhraneniia SSSR, 1953. 611 p. (MLRA 7:3)

1. Deystvitel'nyy chlen AMN SSSR (for Lepeshinskaya, Chernigovskiy and Bakulev). 2. Chlen-korrespondent Akademii nauk SSSR (for Asratyan). 3. Chlen-korrespondent AMN SSSR (for Smirnov, Filimonov, Yegorov and L.I.Smirnov). 4. Moscow, TSentral'nyy institut usovershenstvovaniya vrachey. (Pavlov, Ivan Petrovich, 1849-1936) (Nervous system) (Physiology)

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1. Moscow.

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"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410014-8

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Results of a transverse section of the posterior half of the spinal cord in dogs; on the physiology of spinal shock. Fiziol.zhur. 39 no.3:300-308 My-Je '53. (MLRA 6:6)
(Spinal cord)

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The Committee on Stalin Prizes (of the Council of Ministers USSR) in the fields of science and inventions announces that the following scientific works, popular scientific books, and textbooks have been submitted for competition for Stalin Prizes for the years 1952 and 1953. (Sovetskaya Kultura, Moscow, No. 22-40, 20 Feb - 3 Apr 1954)

Name	Title of Work	Nominated by
Asratyan, E. A.	"Physiology of the Central Nervous System"	Second Moscow Medical Institute imeni I. V. Stalin

SO: W-30604, 7 July 1954

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"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410014-8

ASRATYAN, E. A.

"Switching of Conditioned-Reflex Activity as a special form of its Changeability,"

Communications at the XIV International Congress of Psychology, Acad. Pedagogical Sci. RSFSR, Moscow 1954.

E. A. Asratyan - Acad. Sci. USSR

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"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410014-8

ASHRATYAN, E.A. (Moscow).

Prophylactic and therapeutic role of the process of inhibition, and skull and cerebral injuries. Zhur.nevr.i psikh. 54 no.1:3-8 Ja '54. (MLRA 7:1)
(Skull--Wounds and injuries) (Brain--Wounds and injuries) (Inhibition)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410014-8"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410014-8

4153. ASRATYAN E.A. *New data on unconditioned and conditioned reflexes (Russian text) Z.VYŠČ.NERV.DEJATEL. 1955, 5/4 (480-491) Graphs 8

Unconditioned reflexes before and after removal of the cerebral cortex were studied in dogs. It was observed that removal of the cortex of both hemispheres caused some disturbances in autonomic functions: (1) reduction of salivation, (2) decrease of reflex secretion of gastric juice, which became the same for all kinds of food, (3) increase and prolongation of the humoral phase of gastric secretion during sham-feeding, (4) tendency to strong fall of the blood pressure after 0.4-0.5% loss of blood (which is without effect in normal dogs), (5) delay of excretion from the blood of foreign substances (e.g. Congo red), (6) disregulation of quantitative interrelations between erythrocytes, KCl and H_2O in blood, (7) greater increase of (a) metabolism after small doses of thyroxine (0.3 mg./kg.) or adrenaline (0.1 mg. 0.1% per kg.) and (b) bile secretion on moderate doses of dry bile preparation, than in normal dogs. It is concluded that all these functions must have their representations in the cerebral cortex and therefore are disturbed by decortication. The chief results of the investigations on conditioned reflexes are the following: (1) very strong 'hypermaximal' acoustic stimulus which normally produced a diminished conditioned reaction, evoked a normal reaction when the

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4153 CONT

food-reinforcement was increased; (2) the same tone used before the conditioned stimulus became a positive conditioned stimulus of the 2nd order when it was weaker, and an inhibitory conditioned stimulus when it was stronger than the proper conditioned stimulus; (3) experiments with 'switching' phenomena: (a) the tone which was used as a defensive conditioned stimulus and the touch which was used as an alimentary conditioned stimulus could change their conditioned significance to the opposite (i.e. the tone could be used as an alimentary and the touch as a defensive stimulus) if the experimental situation was changed by including a lamp of 200 W. and a small ventilator, (b) a defensive motor conditioned reflex consisting in raising the left foreleg to the bell in the morning experiment and raising the right foreleg to the same stimulus in the evening experiment was elaborated. The EEG showed an increase of electrical activity from the parietal area of the skull ipsilaterally to the trained leg, i.e. in the morning experiment from the left, and in the evening experiment from the right hemisphere. Wyrwicka - Łódź

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"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410014-8

USSR/Medicine - Higher Nervous Activity FD-2783

Card 1/1 Pub 154-4/19

Author : Asratyan, E. A.

Title : The protective-salubrious role of inhibition in the spinal cord

Periodical : Zhur. vys. nerv. deyat. 5, 187-197, Mar-Apr 1955

Abstract : (From a report presented at the 9th Session of the Academy of Medical Sciences USSR, 9 March 1955). Gives criteria defining the protective-recuperative-salubrious role of inhibition. Presents new experimental data supporting the author's position on the universality of the protective, recuperative, and salubrious role of inhibition for all divisions of the C. N. S., especially the spinal cord. Graphs.

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410014-8"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410014-8

ASRATYAN, E. [A-7]

"THE INFLUENCE OF THE EXTIRPATION OF THE CEREBRAL CORTEX ON THE VEGETATIVE AND SOMATIC FUNCTIONS OF THE ORGANISM

pp. 161, Reports given at the 20th International Congress of Physiologists, Brussels, 30 Jul-4 Aug 56

Translation E-5568

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410014-8"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410014-8

ASRATYAN, E.A.

ASRATYAN, E.A.; USPENSKAYA, N.V., redaktor; ISLENT'YEVA, P.G., tekhnicheskiy redaktor.

[I.P.Pavlov's teaching on the higher nervous activity] Uchenie I.P.Pavlova o vysshei nervnoi deiatel'nosti. Moskva, Izd-vo "Znanie," 1956. 29 p. [Vsesoiuznoe obshchestvo po rasprostraneniiu politicheskikh i nauchnykh znanii. Ser. 3 no.1) (MLRA 9:1)

1. Chlen-korrespondent AN SSSR (for Asratyan)
(NERVOUS SYSTEM) (PAVLOV, IVAN PETROVICH, 1849-1936)

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"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410014-8

ASRATYAN, E.A., redaktor; PRATUSEVICH, Yu.M., redaktor; SHEVCHENKO, G.N., tekhnicheskiy redaktor.

[Problems in an experimental and clinical study of aftereffects of trauma of the spinal cord] Voprosy eksperimental'nogo i klinicheskogo issucheniia posledstvii travmy spinnogo mozga; sbornik statei. Moskva, 1956. 206 p. (MLRA 9:6)

1.Akademiya nauk SSSR. Fiziologicheskaya laboratoriya.
(SPINAL CORD--WOUNDS AND INJURIES)

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"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410014-8

ASRATYAN, E.A., Corresponding Member of the Academy of Sciences, USSR

"Certain Pressing Problems of Spinal Cord Physiology." He touched on the problem of spinal shock and spinal subordination.
Paper presented at 11th Session of AMS USSR on Trauma, April 1957.

SO: Sum. 1644

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"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410014-8

Asratyan, E. A.

AUTHOR: Asratyan, E. A., Corresponding Member of AN USSR 30-10-9/26

TITLE: On the Forms of Regulation of the Functions of Organism by the Crust of Brain (O formakh kortikal'noy regulyatsii funktsii organizma).

PERIODICAL: Vestnik AN SSSR, 1957, October, Nr 10, pp. 71-79 (USSR)

ABSTRACT: The classical experiments by Pavlov on the regulating, functional activity of the crust of brain are the fundamentals on which the most recent investigations of Soviet medicine are based.
The investigations by which should be clarified which rôle the crust of the brain plays at the occurence of the compensating reaction of the human organism in case of illness, occupy a vast field. Experimental material was especially collected by the chirurgical removal of parts of the crust of the brain and the brain of dogs. These operations shew that both the character and the course of the unconditional reflections is sensitively changed.
A particular intensive influence on the level of the general metabolism could not be stated. The regulation of

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On the Forms of Regulation of the Functions of Organism by the Crust of Brain 30-10-9/26

the level is correlated however with the quantity of brain removed.
The work performed in the field of neurophysiology is very extensive, but unfortunately it is still far from being concluded to some extent.

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APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410014-8"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410014-8

ASRATYAN, E.A.; NESMEYANOVA, T.N.; SHAMARINA, N.M.

Leon Abramovich Orbeli; on his 75th birthday. Izv.AN Arm.SSR. Biol.i sel'khoz.nauki 10 no.7:3-11 Jl '57. (MIRA 10:10)
(Orbeli, Leon Abgarovich, 1882-)

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"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410014-8

USSR/Human and Animal Physiology (Normal and Pathological). T-12
Nervous System.

Abs Jour : Ref Zhur - Biol., No 11, 1958, 51214

Author : Asratyan, E.A.

Inst : Academy of Sciences USSR.

Title : Various Forms of the Cortex Regulating the Functions of the Organism.

Orig Pub : Vestn. AN SSSR, 1957, No 11, 71-79.

Abstract : About 100 dogs were investigated in whom either the cortex of both hemispheres (over 30 dogs) was removed or the cortex of one hemisphere. The following phenomena were observed here: stable changes of somatic and vegetative reactions of the organism (lowering of reflex reactions of salivary and gastric glands); less pronounced variations in the amount of salivary contents under the influence of

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"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410014-8

Abs Jour : Ref Zhur - Biol., No 11, 1958, 51214

the quantity and quality of consumed and rejected substances; impairment of reactions assuring stability of arterial pressure in moderate blood losses; impairment of reactions supporting constancy of volume and of composition of circulating blood; changes in capillary permeation; weakening of locomotive and tendon reflexes; strengthening of reactions issuing from humoral pathways; changes in the microstructure of internal secretion. Especially pronounced were differences in functions of symmetric organs (such as the salivary glands, the motor apparatus), which were observed after the decortication of one of the hemispheres. After the operation was performed, degenerative processes developed within CNS (central nervous system. At the same time, the unconditioned reflex activity was restored to some degree. These changes of reactions and functions of the organism were the result of changes which

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Abs Jour : Ref Zhur - Biol., No 11, 1958, 51214

took place within their own neural apparatuses and which were caused by the decortication of the cerebrum, for it is the cortex which imparts greater strength, modification ability and dynamics to unconditioned reflexes. The central section of the unconditioned reflex arch passes each of the basic sectors of CNS. The upper cortical branch of the arch represents the cortical section which governs unconditioned reflexes. -- K.S. Ratner.

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"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410014-8

ASRATYAN, E.A.

Participation of the cerebral cortex in unconditioned reflex regulation of functions of the organism. Nauk zap. Kyiv. un. 16 no.17:9-15 '57. (MIRA 13:2)
(CEREBRAL CORTEX) (REFLEXES)

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ASRATYAN, E.A. (Moskva)

I.P.Pavlov's concept on the protective and curative role of the inhibition process and its significance in surgery [with summary in English]. Khirurgiia 33 no.6:3-11 Je '57. (MIRA 10:12)
(CEREBRAL CORTEX, physiol.
inhib. process, role in surg. & neurosurg.)
(NEUROSURGERY
role of inhib.funct. of cerebral cotex)

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"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410014-8

USSR/Human and Animal Physiology (Normal and Pathological). Nervous System. T-12

Abs Jour : Ref Zhur - Biol., No 11, 1958, 51213

Author : Asratyan, E.A.
Inst :
Title : The Characteristics Regulating Humoral Functions in Dogs with Decorticated Cerebrum.

Orig Pub : Fiziol. zh. SSSR, 1957, 43, No 7, 651-656.

Abstract : Humoral agents regulating functional activity became more important in dogs with decorticated cerebrum. This fact was evidenced by a considerable strengthening of initial oxidizing activity of the organism after food intake and after administration of adrenalin and tyroxin, as well as by greater changes of respiratory movements, of pulse rate, of salivation, and of the general condition of the organism. In dogs with both hemispheres removed, an increase of hyperglycemic and hypoglycemic reactions was observed

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Abs Jour : Ref Zhur - Biol., No 11, 1958, 51213

with respect to moderate doses of adrenalin and insulin, as well as a leukocytic reaction when sodium nucleinate was administered. Bile secretion took place when a dry bile preparation was internally inducted. After decortication, the phase of reflex secretion of gastric juice upon imaginary feedings was weakened, while the phase of humoral secretion became stronger, as did also secretions when histamin was injected intramuscularly and alcohol infused rectally. At the decorticated side the reflex activity of salivary glands underwent a sharp and stable decrease. After complete decortication the activity of unpaired organs proved to become more pronounced. -- A.M. Ryabinovskaya.

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"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410014-8

ASRATYAN, E.A.

Recent data on switching in conditioned reflex function. Zhur. vys.nerv.deint. 8 no.3:305-312 My-Je '58 (MIRA 11:8)

1. Fiziologicheskaya laboratoriya AN SSSR.
(REFLEX, CONDITIONED, switch-over (Rus))

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ASRATYAN, Ezras A.

"Some Aspects of the Formation of Conditioned Reflexes and of the Development of their Properties."

report to be submitted for the Symposium on Brain Mechanisms and Learning, CIOMS, Montevideo, Uruguay, 3-7 Aug 1959.

Corres. Mbr, Acad. Sci. USSR

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ASRATYAN, E.A.

Certain aspects of the establishment of conditioned reflex connections and formation of their properties based on motor activity studies. Izv.AN SSSR.Ser.biol. no.5:641-662 S-O '59. (MIRA 13:2)

1. Physiological Laboratory, Academy of Sciences of the U.S.S.R., Moscow.
(CONDITIONED RESPONSE)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410014-8"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410014-8

ASRATYAN, E. (Moskva); GUTMANN, E.; KONORSKIY, Yu. [Konorsky, J.] (Varshava)

Mechanisms of the motor activity of animals. Zhur. vys. nerv. deiat. 9 no.2:301 Mr-Ap '59. (MIRA 12:7)
(MOVEMENT, PSYCHOLOGY OF)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410014-8"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410014-8

ASRATYAN, E.A.

Recent data on the significance of the force and order of stimuli association in the formation and preservation of conditioned reflex connections. Zhur.vys.nerv.deiat. 9 no.3:409-419 My-Je '59. (MIRA 12:9)

1. Physiology Laboratory, U.S.S.R. Academy of Sciences, Moscow.
(REFLEX, CONDITIONED)

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"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410014-8

ASRATYAN, EZRAS ASRATOVICH

(7)

USSR

APUKHTIN, Petr Kuz'mich, Active Member, Academy of Medical Sciences, USSR; Scientific Director, Institute of Surgery imeni A. A. Vishnevskiy, Academy of Medical Sciences USSR, Moscow; Head, Chair Normal Physiology, First Moscow Medical Institute imeni I. M. Sechenov, Moscow; Head, Laboratory of Human Embryogenesis, Institute of Obstetrics and Gynecology, Moscow - "Electroencephalographic analysis of cortical-subcortical interrelations in positive and negative conditioned reflexes" (II)

ASRATYAN, Ezras Asratovich, Corresponding Member, Academy of Sciences USSR; Active Member, Academy of Sciences Armenian SSR; Director, Laboratory of Physiology, Academy of Sciences USSR, Moscow - "The rise and localization of cortical inhibition in the elements of the conditioned reflex arc" (V)

KUPALOV, Petr Grigor'yevich, Active Member, Academy of Medical Sciences USSR; Head, Physiology Division, Institute of Experimental Medicine, Academy of Medical Sciences USSR, Leningrad - "Normal and pathological neural processes in the higher divisions of the brain" (III)

KURIKOV, V. G., (Probably Vladimir Sergeyevich Kurikov, Corresponding Member, Academy of Medical Sciences USSR; Director, Institute of Higher Nervous Activity, Academy of Sciences USSR, Moscow; Head, Department of Physiology and Pathology of the Nervous System, Institute of Neurosurgery imeni N. N. Burdenko, Academy of Medical Sciences USSR, Moscow) - "The reflection of the process of irradiation in the electroencephalograms during the formation of conditioned reflexes" (IV)

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LUKIN'OV, Sergey Aleksandrovich, Lieutenant Colonel; Active Member, Academy of Medical Sciences USSR; Director, Institute of the Brain, Academy of Medical Sciences USSR, Moscow - "Current data on the structure and function of the human brain" (I)

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FERDMAN, David Lazarevich, Institute of Biochemistry, Academy of Sciences Ukrainian SSR, Kiev - "Biochemical characteristics of dystrophy and atrophy of muscles" Session II-2-a

KOSTYUK, Platon Grigor'yevich, Deputy Director, Institute of Physiology imeni A.A. Bogomolets, Academy of Sciences Ukrainian SSR, Kiev - "Functional changes in central synapses following denervation" Session II-1

MESHKOVA, N. P., Chair, Animal Biochemistry, Moscow State University, Moscow - "Muscle changes produced by tetanus toxin" II-2-b

report to be submitted for the Symposium on the Effects of Use and Disuse on Neuromuscular Functions (IUPS), Prague-Liblice, Czech. , 18-24 Sep 1962.

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[Reliability of the brain] Nadezhnost' mozga. Moskva, Izd-vo Akad. nauk SSSR, 1962. 133 p. (MIRA 16:7)
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D408/D301

AUTHOR: Asratyan, E.A., Corresponding Member, AS USSR, and Simonov, P.V., Doctor of Medical Sciences

TITLE: The reliability of the brain

PERIODICAL: Znaniye-sila, no. 5, 1962, 17-20

TEXT: The article gives a general outline of how the central nervous system operates, explaining neural excitation and inhibition, the value of protective inhibition and the mechanisms via which the nervous system compensates for damage or dystrophy of some particular section. Four such mechanisms, responsible for the reliability of the nervous system, are distinguished. 1) Protective inhibition which ensues during excessive stimulation of the body to give the nerve cells a chance to restore their viability. 2) Reserve neural paths and reserve nerve centers which, though normally highly specialized, can adapt to assume the control functions of other damaged paths and nerve centers. 3) Multiple duplica-

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The reliability of the brain

tion of brain structures, all of which can control the same body function in a varying degree. This gives relative stability of the lower mechanisms and at the same time subordinates them strictly to the higher brain centers. 4) The use of new, temporary connections between nerve centers in the cerebral cortex to restore impaired body functions. The authors illustrate these mechanisms with references to experiments on dogs. There are 6 figures.

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(Astronomy) (Nuclear physics) (Chemistry) (Biology)

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